

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US2004/027954

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07K16/30 A61K39/395 A61P35/00 G01N33/53 C12N15/13
C12N15/63 C12N5/10 C07K14/71 G01N33/574

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, Sequence Search, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 02/056022 A (MINERVA BIOTECHNOLOGIES CORPORATION) 18 July 2002 (2002-07-18) figure 4; examples 1,2; sequences 7,8 the whole document	1-137, 139-195
X	WO 02/078598 A (RAMOT UNIVERSITY AUTHORITY FOR APPLIED RESEARCH & WRESCHNER, DANIEL H) 10 October 2002 (2002-10-10) claims 1-28; figures 2,6 the whole document	1-137, 139-195
X	WO 02/22685 A (KUFFE, DONALD, W; OHNO, TSUNEYA) 21 March 2002 (2002-03-21) claims 1-49; sequence 1 the whole document	1-137, 139-195
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the International filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the International filing date but later than the priority date claimed

- *T* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the International search

2 March 2005

Date of mailing of the International search report

16/03/2005

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 92/07000 A (TRANSGENE S.A) 30 April 1992 (1992-04-30) page 15 - page 18 -----	1-137, 139-195
X	US 6 548 643 B1 (MCKENZIE IAN F. C ET AL) 15 April 2003 (2003-04-15) tables 1-7 the whole document -----	1-137, 139-195
X	WO 03/020280 A (MINERVA BIOTECHNOLOGIES CORPORATION) 13 March 2003 (2003-03-13) page 33, line 32 -----	177,179
A	WO 03/020279 A (MINERVA BIOTECHNOLOGIES CORPORATION) 13 March 2003 (2003-03-13) the whole document -----	1-137, 139-195
A	MEERZAMAN DAOUD ET AL: "Involvement of the MAP kinase ERK2 in MUC1 mucin signaling" AMERICAN JOURNAL OF PHYSIOLOGY, vol. 281, no. 1 Part 1, July 2001 (2001-07), pages L86-L91, XP001205513 ISSN: 0002-9513 the whole document -----	1-137, 139-195
P,X	WO 03/089451 A (DYAX CORPORATION; HOOGENBOOM, HENDRICUS, R., J., M; HENDERIKX, MARIA,) 30 October 2003 (2003-10-30) the whole document -----	1-137, 139-195
P,X	WO 2004/005470 A (IMMUNOGEN, INC) 15 January 2004 (2004-01-15) the whole document -----	1-137, 139-195

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.2

Claims Nos.: 138

The subject-matter of independent claim 138 is completely unclear in the sense of Article 6 PCT. This claim states the scope of a method but lacks any technical feature which would allow the performance of said method.

In view of this fundamental lack of clarity, a meaningful search of this claim is not possible.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☒ Claims Nos.: 138
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
see FURTHER INFORMATION sheet PCT/ISA/210

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.

2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:

4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US2004/027954

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 02056022	A	18-07-2002	CA 2430060 A1 EP 1354196 A2 JP 2004534730 T WO 02056022 A2 US 2003036199 A1 US 2003056244 A1 US 2003074700 A1 US 2003221223 A1 US 2004078851 A1 US 2004063617 A1 US 2004111766 A1	18-07-2002 22-10-2003 18-11-2004 18-07-2002 20-02-2003 20-03-2003 17-04-2003 27-11-2003 22-04-2004 01-04-2004 10-06-2004
WO 02078598	A	10-10-2002	CA 2442531 A1 WO 02078598 A2 US 2005019324 A1	10-10-2002 10-10-2002 27-01-2005
WO 0222685	A	21-03-2002	AU 9263101 A CA 2421751 A1 CN 1455680 A EP 1317278 A2 JP 2004515472 T WO 0222685 A2 US 2004018181 A1 US 2005042209 A1	26-03-2002 21-03-2002 12-11-2003 11-06-2003 27-05-2004 21-03-2002 29-01-2004 24-02-2005
WO 9207000	A	30-04-1992	FR 2668064 A1 AT 169640 T CA 2094705 A1 DE 69129989 D1 DE 69129989 T2 DK 554344 T3 EP 0554344 A1 ES 2121791 T3 WO 9207000 A1 HK 1012841 A1 JP 3195958 B2 JP 6502399 T SG 96535 A1 US 6203795 B1 US 6328956 B1 US 5861381 A	24-04-1992 15-08-1998 24-04-1992 17-09-1998 08-04-1999 17-05-1999 11-08-1993 16-12-1998 30-04-1992 05-05-2000 06-08-2001 17-03-1994 16-06-2003 20-03-2001 11-12-2001 19-01-1999
US 6548643	B1	15-04-2003	US 6177256 B1 US 5989552 A WO 0157068 A1 AU 2987701 A CA 2399026 A1 EP 1257565 A1 JP 2003533181 T	23-01-2001 23-11-1999 09-08-2001 14-08-2001 09-08-2001 20-11-2002 11-11-2003
WO 03020280	A	13-03-2003	CA 2459584 A1 EP 1434584 A2 JP 2005501887 T WO 03020280 A2 US 2003119834 A1	13-03-2003 07-07-2004 20-01-2005 13-03-2003 26-06-2003
WO 03020279	A	13-03-2003	CA 2459583 A1 EP 1425016 A2	13-03-2003 09-06-2004

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US2004/027954

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 03020279 A		WO 03020279 A2 US 2003130293 A1	13-03-2003 10-07-2003
WO 03089451 A	30-10-2003	AU 2003225009 A1 CA 2482596 A1 EP 1497649 A2 WO 03089451 A2 US 2003235868 A1	03-11-2003 30-10-2003 19-01-2005 30-10-2003 25-12-2003
WO 2004005470 A	15-01-2004	WO 2004005470 A2 US 2004057952 A1	15-01-2004 25-03-2004